

PRINTING OPERATIONS -- Form 4530-107
AIR POLLUTION CONTROL PERMIT APPLICATION INSTRUCTIONS

NOTE: Use of this form is required by the Department for any air pollution control permit application filed pursuant to ss. 285.61, 285.62 or 285.66, Wis. Stats. Completion of this form is mandatory. The Department will not consider or act upon your application unless you complete and submit this application form. It is not the Department's intention to use any personally identifiable information from this form for any other purpose.

Complete one form for each significant printing operation.

- Item 1 Provide the name of the facility.
- Item 2 Provide the facility identification (FID) number that appears on the annual emission inventory reports.
- Item 3 Provide the identification number for the stack exhausting this printing operation. Use the same number used on Form 4530-103. The same stack identification number should appear on all appropriate forms used in conjunction with this operation. If there is more than one stack exhausting this unit, please attach Form 4530-135 (Supplemental Information) to further describe the situation.
- Item 4 Assign an identification number to this printing operation (e.g., Process P30). Use the existing identification number from the Air Emissions Inventory. Use this number on other forms related to this operation.
- Item 4a Provide the manufacturer's name and equipment's model number for this printing operation. Specify dryer manufacturer and model, and specify the type of substrate to be printed. In addition, specify the maximum process weight rates for this operation in pounds per hour. Maximum process weight rate is the maximum weight of inks and substrate introduced to this operation in pounds per hour.
- Item 5 Specify the type of control device used to reduce emissions from this operation. If the operation is uncontrolled, check "uncontrolled". For controlled operations, provide an identification number (e.g., C10, C20, etc.) for the control device. This assigned control device number should also be used on the appropriate Form (s) 4530-110, 111, 112, 113, 114, 115, 116, or 117.
- Item 6 Specify printing methods (e.g., flexographic, web-offset, packaging rotogravure, etc.). If not one of the six listed, check "other" and specify the type.
- Item 7 Provide the installation date (month/day/year) or date of last modification, whichever is later, for this equipment. Please see instruction booklet for the definition of "modification". If this is a new source, indicate that it is new.
- Item 8 Specify normal operating schedule in hours per day, days per week, and days per year.
- Item 9 Describe any oven curing for this printing operation. Specify dryer fuels and dryer maximum heat input in million BTU per hour; also specify the number of ovens directly associated with this process line.
- Item 10a Include all inks, fountain solutions, blanket washes (manual or automatic), clean-up and other solvents used in this operation or projected for use in the future under alternative operating scenarios. Please do not forget to complete and attach Form(s) 4530-126, one for each material that emits hazardous air pollutants, for this printing operation. Printing operations that use large numbers of materials that emit hazardous air pollutants may submit a summary of hazardous emissions, as described in the instructions for Item 5 of Form 4530-126.
- Item 10b Specify the maximum amount of inks or solvent used in gallons per hour and per year. These projections should be consistent with the assumptions used to project the "maximum theoretical emissions" from this emissions unit, that is, reasonable assumptions about the maximum operating level of the emissions unit.
- Item 10c Specify the normal usage of inks and solvents in gallons per year.
- Items 10d -10f Specify the composition of inks, fountain solutions, etc. in weight or volume percent, as applied. For each ink, fountain solution, etc. specify the weight or volume percent (for flexographic, packaging rotogravure, or publication rotogravure operations) of d) solids, e) VOCs (Volatile Organic Compounds), and f) water, in the appropriate column. Include exempt solvents as water in column h (see Note 1 below).
- Item 10g Specify the density of each ink or VOC in pounds per gallon. This information is necessary for the calculation of VOC content at column 10h (see below).
- Item 10h For screen printing sources only, specify the VOC content of the ink in pounds per gallon less water (and exempt solvents), as applied. See instructions booklet for examples of this calculation.

Note 1: Exempt solvents are those identified in the definition of VOC as having negligible photochemical reactivity. Methylene chloride and methyl chloroform (1,1,1-trichloroethane) are the two most commonly used exempt solvents in printing operations.

Note 2: The VOC content of the ink and other composition information may be available from your ink supplier.

Please do not forget to complete Form 4530-118, DESCRIPTION OF METHODS USED TO DEMONSTRATE COMPLIANCE.

